First & Part Bill

Original/Duplicate/Triplicate

**CONTRACT CERTIFICATE**

**(FOR OTHER WORKS)**

Est Cost: **1350.00Lakhs**

Head of Account:
Job Number: **002-20-000038**
Sub-division:-**Yelahanka**

Division:-**Yelahanka**
Bill Received No.....Dated.....Cash Book Voucher No.....Dated.....:
Scheduled Docket No
**Name of work:- "Restoration and Improvements of Balance main and cross roads of Nagenahalli , Harohalli , Kenchenahalli villages, Srinidhi layout, ISRO layout,KEB layout and surrounding areas in ward no -02. of yelahanka Sub division (PACKAGE NO-02) (Number of Works-05)"**
**Name of Contractor and full Address:Sri.K.VENKATARAJU No.23, Near Akai Public School, Nagashettyhalli, RMV 2nd stage, Bengaluru-94**
Reference to Work order No: **BBMP/EE/YNK.D/EPMT-08/W.O/111/2021-22** Dated: **15/02/2022**

Certified that the non-measurement were taken by me on 31/03/2022 and recorded as Pages 493039 to 493045/2 of measurement Book No **4931** and that the work is satisfactorily executed.

K.Venkata
**Contractor**

**Officer-in-charge of work**

Certified that the measurement were checked by me on 31/03/2022 and found correct.The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to the site of the work and the contractor has not previously received any advance on this security. These Materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

**Sub-Division Officer**

**If Memorandum of Payment**

| | | | |
|---|---|---|---|
| 1 | Total value of work done or supplies made as per account with in | | |
| 2 | Deduct amount to be held in reserve being.....percent Rs..... | | |
| 3 | " Balance | | |
| 4 | Deduct Payments<br>a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No.....<br>b)Amount adjusted towards cash advance recovery of Payments cost of store or other materials supplied. Now made recovery of amount creditable to this/other work amount paid on the bill Cheque/Cash | | |
| 5 | Balance being unpaid value of work done held in reverse | | |
| 6 | Deduct cash advance made on the Office Cash Book Voucher.No.....<br>Dated.....less adjustments | | |
| 7 | Net amount due to or from contractor<br>Unadjusted items | | |
| 8 | Advance to contractor for materials brought to site (as detailed) within Value of Government materials supplied | | |

**Contractor's Signature**

K.Venkata

Received Rs.....(in words)
.....by cash and by adjustment of Payment as per memorandum.
(for use in the officer)
Witness:
1.
2.
Dated..... Signature of Contractor

K.Venkata

Stamp

Paid by me by Cheque No.....Dated.....
Cash Rs.....Dated.....

*Initials of officer making payment*

*Executive Engineer*

| Sl. No | Description of works |
|---|---|
| 1 | Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33) |
| 2 | KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface level neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-147 19.1&17.4& 17.11Skm lead= 57+2.0x1.28x =77.48 |
| 3 | KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing c specifications, Specification No. KBS 4.1, 4.2, (P.No.13, I.No. 4.3 ) |
| 4 | Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall including centering shuttering,cost of materials,HOM of Machinery.Curing Etc.,Complete Excluding cost of Steel as per specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Pa 15Cm(Item No 37.59.2 page no 271) |
| 5 | KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, ho in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members where complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machine per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2 |
| 6 | Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting work,curing,including cost of alll materials, labour,hire charges of machinery,loading.unloading.lead and lift.transportation (Data Rate) |
| 7 | Providing and fixing RCC precast cover slab of 230mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 2 size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, comp drawing and the directions of Engineer in-charge. (Data Rate) |
| 8 | KSRB 4-1.6 : Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and d granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exce thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per Specification No. KBS 4.1, 4.2, (P.No-13,I No-4.6) |
| 9 | Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, cu cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per th Engineer incharge. (P.No.27, I.No.5.30 of PW. P&IWTD SR 2018-19) |
| 10 | KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered co with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180. Iitem no.24.1 of KPWD S.R Bangalo 2019) |
| 11 | KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, t and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 k as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km lead= ( I No-19.1 |
| 12 | KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roll scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries specifications, MORTH / Chapter 3(P.No.146, I.No.19,56 ) |
| 13 | KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling all labour, HOM complete as per specifications.(I No-19.64,P No-147) |
| 14 | Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggr trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in un motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, specifications Clause 401 of MORTH V Revision.( I No-20.5,P No-153) |
| 15 | KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to w specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory rol desired density complete as per specifications(P.No-155,I No-20.18) |
| 16 | KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular ba including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as Clause 502 of MORTH V revision(P.No-158,I No-21.6) |
| 17 | KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grad VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alig smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifica MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG- 160 I No-21.17.6) |
| 18 | KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfa sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all mate complete as per specifications (P.No-161,I No-21.7) |
| 19 | KSRRB M500-19. Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed wit and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Cla V revision using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-ll (30 mm to 45 mm) with 5.4% VG-30 Bitu 21.22.6) |

| Previous Measurement | | Present Measurement | | | Total Up-to-date | |
|---|---|---|---|---|---|---|
| Qty | Amount | Qty | Rate (Rs) | Amount | Qty | Amount |
| - | - | 0.00 | 112.41 | 0.00 | 0.00 | 0.00 |
| - | - | 5256.22 | 217.43 | 1142859.00 | 5256.22 | 1142859.00 |
| - | - | 872.39 | 5675.99 | 4951657.00 | 872.39 | 4951657.00 |
| - | - | 1707.66 | 7497.22 | 12802728.00 | 1707.66 | 12802728.00 |
| - | - | 101.74 | 80948.07 | 8236047.00 | 101.74 | 8236047.00 |
| - | - | 4404.56 | 1941.22 | 8550224.00 | 4404.56 | 8550224.00 |
| - | - | 404.28 | 4530.86 | 1831736.00 | 404.28 | 1831736.00 |
| - | - | 0.00 | 6089.86 | 0.00 | 0.00 | 0.00 |
| - | - | 9706.00 | 436.80 | 4239580.00 | 9706.00 | 4239580.00 |
| - | - | 1528.70 | 85.65 | 130932.00 | 1528.70 | 130932.00 |
| - | - | 9953.42 | 64.58 | 642791.00 | 9953.42 | 642791.00 |
| - | - | 1069.50 | 41.75 | 44651.00 | 1069.50 | 44651.00 |
| - | - | 28534.85 | 6.42 | 183193.00 | 28534.85 | 183193.00 |
| - | - | 4286.17 | 2014.87 | 8636072.00 | 4286.17 | 8636072.00 |
| - | - | 5706.97 | 2021.29 | 11535442.00 | 5706.97 | 11535442.00 |
| - | - | 28928.69 | 34.26 | 991097.00 | 28928.69 | 991097.00 |
| - | - | 1446.43 | 7365.73 | 10654046.00 | 1446.43 | 10654046.00 |
| - | - | 28928.69 | 12.85 | 371733.00 | 28928.69 | 371733.00 |
| - | - | 1157.15 | 8534.82 | 9876047.00 | 1157.15 | 9876047.00 |

| | Description of works |
|---|---|
| | KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 2 per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15) |
| 1 | KSRRB M800 Road markers/ Road stud , KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers m polycarbonate and ABS (Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of pro total internal reflection of the light entering thje lens face and shall support a load of 16000 kg tested in accordance to Specificati Category A of MORTH Circular No RW/NH/33023/10-97-DO III Dt 11.06.1997.The height, width and length shall not exceed s 100mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree.The stru detachment of the integrated cylindrical shanks, (of diameter not less than 19mm and height not less than 30mm )from the body is n minimum value of 500kg. Fixing will be by drilling holes on the road for the shanks to go inside, without ails and using epoxy resin adhesive as per manufacture's recommendation and complete as directed by the engineer.(P.No-187,I No-24.41) |
| 22 | KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exc 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserv materials seperately complete as per specifications. MORTH Specification No. 202(P.No.140- I.No.18.47) & Pg No.136, Item No.17 (8km lead = 57+2*1.28X8) |
| 23 | KSRRB M600-1. Providing and Constructing dry lean cement concrete mix CC1:5:10 Base with OPC 25mm and down size graded m metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum over a prepared sub-base coarse and fine aggregate conforming t 383-2016, aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, optimum moisture co to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching p transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete specifications. do- with OPC at 150 kg/cum and Coarse agrregate 0.86cum, Fine aggregate 0.58cum using Concrete batch Mix Plan Cum/hr capacity with fixed form Paver MORTH Specification No. 601, Pg No.174Item No.22.1.2 |
| 24 | Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplast @3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per appr mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel p including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints incl groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishi lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargedof machines,all lead an charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cu MORTH Specification No. 601, Pg No.174Item No.22.1.2 |

**Certificate:-**

1. The above work has been completed satisfactorily.
2. The debris has been removed and disposed from the work spot.
3. No departmental issues are made to the contractor.

**Asst. Engineer**
**Ward no.002**
**Chowdeshwari ward**

| Previous Measurement | | Present Measurement | | | Total Up-to-date | |
|---|---|---|---|---|---|---|
| Qty | Amount | Qty | Rate (Rs) | Amount | Qty | Amount |
| - | - | 394.61 | 459.29 | 181238.00 | 394.61 | 181238.00 |
| - | - | 0.00 | 360.79 | 0.00 | 0.00 | 0.00 |
| - | - | 135.13 | 1040.72 | 140634.00 | 135.13 | 140634.00 |
| - | - | 101.35 | 4101.90 | 415723.00 | 101.35 | 415723.00 |
| - | - | 101.35 | 5690.64 | 576740.00 | 101.35 | 576740.00 |
| | | | | | Sub-Total Amount | 86135170.00 |
| | | | | | Appilcable GST Charges 12% | 10336220.00 |
| | | | | | Total Amount Rs. | 96471390.00 |

Asst. Executive Engineer
Yelahanka Sub-Division
BBMP